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Tuesday, February 26

12:00 Reception open
A14 Foyer

13:30 Workshops
WS 1: Integrating School Practice in Austrian Teacher Education
13:30–16:30, A14 1-114, CID pp. 151–152
Lukas Planteu, Bernhard Standl, Wilfried Grossmann and Erich Neuwirth

WS 5: Using Teachers’ TryScience to support educators and improve teaching
Carol Berry and Peter Kusterer

WS 2: BubbleSort, SelectSort and InsertSort in Excel & Delphi – Learning the Concepts in a Constructionist Way
15:00–16:30, A14 0-031, CID pp. 153–154
Jan Benacka

13:30 GI-DDI
Meeting of the CSE chapter of the German Association for CS
13:30–16:30, Senatssitzungssaal

17:00 Welcome Reception
A14 Foyer
Wednesday, February 27

09:00 Conference Opening
A14 1-112
Prof. Dr. Gunilla Budde, Vice-President of the Carl-von-Ossietzky-University
Prof. Dr. Ira Diethelm, Chair

09:15 Keynote 1
The Darmstadt Model: A First Step towards a Research Framework for Computer Science Education in Schools
09:15–10:15, A14 1-112, LNCS pp. 1–14
Peter Hubwieser

10:45 Algorithmics and Computational Thinking
Session Chair: Ira Diethelm

Novice Difficulties with Interleaved Pattern Composition
10:45–11:05, A14 1-112, LNCS pp. 57–67
David Ginat, Eti Menashe and Amal Taya

Blind Pupils Begin to Solve Algorithmic Problems
11:10–11:30, A14 1-112, LNCS pp. 68–79
Ľudmila Jašková

12:00 Lunch Break

13:30 Informatics in the context of other disciplines
Session Chair: Peter Hubwieser

The Context-based Approach IniK in Light of Situated and Constructive Learning Theories
Maria Knobelsdorf and Josh Tenenberg
The Contribution of Computer Science to Learning
Computational Physics
13:55–14:15, A14 1-112, LNCS pp. 127–137
*Rivka Taub, Michal Armoni and Mordechai Ben-Ari*

Computer Modeling with Delphi – constructionism and IBL in practice and motivation for studying STEM
14:20–14:40, A14 1-112, LNCS pp. 138–146
*Jan Benacka and Jaroslav Reichel*

16:00 **Teacher’s perspectives**

*Session Chair: Ira Diethelm*

Research-Based Learning Revisited: On Using a Delphi Process in Informatics Teacher Education
16:00–16:20, A14 1-112, LNCS pp. 196–208
*Holger Danielsiek, Ludger Humbert and Jan Vahrenhold*

Learning Fields in Vocational IT Education – How Teachers Interpret the Concept
16:25–16:45, A14 1-112, LNCS pp. 147–158
*Simone Opel and Torsten Brinda*

17:30 **PC-Meeting**

17:30–18:30, A14 0-031
Thursday, February 28

09:00  **Keynote 2**

Computer Science in secondary schools in the UK: ways to empower teachers
09:00–10:00, A14 1-112, LNCS pp. 15–30
*Sue Sentance, Mark Dorling and Adam McNicol*

10:30  **From computer usage to computational thinking**

*Session Chair: Nataša Grgurina*

Informatics in the French High School Curricula: Recent Moves and Perspective
10:30–10:50, A14 1-112, LNCS pp. 31–42
*Françoise Tort and Béatrice Drot-Delange*

Informatics for all high school students – computational thinking approach
10:55–11:15, A14 1-112, LNCS pp. 43–56
*Maciej M. Syslo and Anna Beata Kwiatkowska*

10:30  **Towards Programming Competences**

*Session Chair: David Ginat*

Why is programming difficult? -Proposal for learning programming in ”small steps“ and a prototype tool for detecting ”gaps“
*Yayoi Hofuku, Shinya Cho, Tomohiro Nishida and Susumu Kanemune*

Test items for and misconceptions of competences in the domain of logic programming
10:55–11:15, A14 1-113, CID pp. 25–34
*Barbara Linck*

Teaching NP completeness in secondary schools
11:20–11:35, A14 1-113, CID pp. 35–38
*Seungyon Kim and Seongbin Park*
12:00 Lunch Break

13:00 Primary Education

Session Chair: Carsten Schulte

“Archaeology of Information” in the Primary School
13:00–13:20, A14 1-112, LNCS pp. 115–126
Diana Bitto and Claudio Mirolo

Introducing Topics from Informatics into Primary School Curricula: How do teachers take it?
Jiří Vaníček

Environments for programming in primary education
13:50–14:05, A14 1-112, CID pp. 53–60
Monika Gujberová and Peter Tomcsányi

13:00 Towards National Curricula

Session Chair: Maciej M. Syslo

A comparison of current trends within Computer Science teaching in school in Germany and the UK
13:00–13:20, A14 1-113, CID pp. 63–76
Valentina Dagiene, Tatjana Jevsikova, Carsten Schulte, Sue Sentance and Neena Thota

Informatics Education in Turkey: National ICT Curriculum and Teacher Training at Elementary Level
Yasemin Gülbahar, Mustafa İlkhan, Selcan Kilis and Okan Arslan

The New Course of Study and a prospect of information studies education in Japan
13:45–14:00, A14 1-113, CID pp. 89–96
Yoshiaki Nakano and Katsunobu Izutsu

14:45 Excursion

Visit of a local school (Neues Gymnasium) with informatics education

18:00 Conference Dinner

Traditional northwestern german conference dinner with traditional preparatory walk, named “Kohltour”.

**Friday, March 1**

**08:15**  **Excursion**

CEWE COLOR (www.cewecolor.com)

**09:00**  **Working Groups**

Meeting of former ITiCSE and Koli WGs for CS in secondary education
09:00–10:30, A14 1-115

**11:00**  **Games**

Session Chair: Johannes Magenheim

Using Computer Games as Programming Assignments for University Students and Secondary School Pupils
11:00–11:20, A14 1-112, LNCS pp. 91–102
Monika Tomcsanyiova

Location-based Games in Informatics Education
11:25–11:45, A14 1-112, LNCS pp. 80–90
Gabriela Lovášzová and Viera Palmárová

**11:00**  **Computational Thinking**

Session Chair: Ivan Kalaš

The Role of Algorithm in General Secondary Education Revisited
Daniel Lessner

An epistemic hypermedia to learn Python as a resource for an introductory course for algorithmic in France
11:25–11:45, A14 1-113, CID pp. 111–118
Christophe Reffay, Mahdi Miled, Pascal Ortiz and Loïc Février

Computational Thinking in Dutch Secondary Education
11:50–12:05, A14 1-113, CID pp. 119–123
Nataša Grgurina
12:30 Lunch Break

13:30 Competences

Session Chair: Maria Knobelsdorf

Competence Measurement and Informatics Standards in Secondary Education
Johannes Magenheim, Jonas Neugebauer, Peer Stechert, Laura Ohrndorf,
Barbara Linck, Sigrid Schubert, Wolfgang Nelles and Niclas Schaper

On competence based learning and neuroscience
Peter Antonitsch and Barbara Sabitzer

Categorization of Pictures in Tasks of the Bebras Contest
Martina Kabatova and Monika Tomcsányiová

13:30 Different Views

Session Chair: Sue Sentance

A Model for Teaching Informatics to German Secondary School Students in English-language Bilingual Education
Martin Weise

What you see is what you have in mind: constructing mental models for formatted text processing
13:55–14:15, A14 1-113, CiD pp. 139–147
Carlo Bellettini, Violetta Lonati, Dario Malchiodi, Mattia Monga, Anna Morpurgo
and Mauro Torelli

16:00 Closing Session
Saturday, March 2

09:00  Workshops

.NET Gadgeteer
09:00–12:00, A14 0-031, CID p. 159
Sue Sentance and Steve Hodges
**Useful Information**

**Tourist Info**
www.oldenburg-tourist.de  
Tel. +49 (0) 441 3 61 61 3-66  
Schloßplatz 16  
26122 Oldenburg  
open from 9:30–18:00 (16:00 on Sat)

**Sightseeing Tours**
On Sat, March 2 at 11:00 and 13:30, no registration needed, available in English, Dutch and French.  
Duration: 1.5 h, Price: 6€ per person

**Opening Hours**
Shops until about 18:00  
Grocery/convenience stores until about 22:00  
Mensa: 11:30–14:15

**Numbers**
Police, fire department, ambulance: 112  
Taxi: +49 (0) 441 63 0 63 or +49 (0) 441 25 0 25

**Bus**
You received a bus ticket in the conference bag or can get one at the conference desk for free.
Excursion: Neues Gymnasium

Visit of a local school (Neues Gymnasium) with informatics education

**Begin** 15:15

**End** 16:30

**Taxi** Please register at the conference desk for shared taxi service

**Bus** Line 303 (direction “Am Alexanderhaus”) or Line 302 (direction “Infanterieweg”) to bus stop “Von-Finckh-Straße”

*See the bus schedule app on the last page!*

**Address** Alexanderstraße 90
26121 Oldenburg

**Web** www.neuesgymnasium.de
Excursion: CEWE Color

Begin 08:15
End 11:00
Taxi Please register at the conference desk for shared taxi service
Bus Line 312 (direction “Giesenweg”) to bus stop “Hertzstraße”

See the bus schedule app on the last page!

Address Meerweg 30
26133 Oldenburg

Web www.cewecolor.de

About As a technological and market leader in the field of photofinishing, CEWE COLOR is the service partner for first-class brands on the European photographic market. With a staff of more than 3,100 employees and state-of-the-art processing machines, we ensure that billions of photos and millions of CEWE PHOTO BOOKS and photo gift articles leave our product locations every year - just as they were ordered and in the highest standards of quality. Our customers include both retail stores and Internet (e-commerce) dealers - we supply a total of more than 33,000 retail partners in 24 European countries.

We recognised the significance of digital business at an early stage. As a „first mover“ CEWE COLOR has for years now been setting standards in the launch of new digital technologies and products. We constantly generate new impulses on the market: our much-awarded CEWE PHOTO BOOK, photo canvases, photo calendars and greeting cards and also our order software are only a few examples here.

„We will continue to offer the best order and design software on the market, the widest product range and the best photo products through continuously investing in research and product development, optimising our order software and the Internet,” says CEO Dr. Rolf Hollander. We have also reinforced our digital skills over the past few years and are now one of the leading service companies for digital prints in Europe.
Kohltour & Conference Dinner

**Begin Walk** 16:45

**Begin Dinner** 18:30

**End** open

**Address** Ratskeller Oldenburg, Markt 1, 26122 Oldenburg

**Web** www.ratskeller-oldenburg.de
Grünkohlessen is an old custom in North Germany and parts of Scandinavia, particularly in the state of Bremen and its surrounding districts of Osterholz, Diepholz, Verden and Rotenburg, in Oldenburg Land, the County of Bentheim, Emsland, Osnabrück Land and East Frisia, in the Middle Weser Region, and also in Hamburg, Cuxhaven, in the Hanover Region, Brunswick Land, in the Magdeburg region, in Westphalia and Schleswig-Holstein.

Grünkohl dish with [sweet] baked potatoes, Pinkel, Kochwurst, Kassler, bacon and mustard

Grünkohl (locally also known as Braunkohl) is curly-leafed kale, a type of cabbage, traditionally harvested after the first autumn frost. The late harvest of kale ensures that its bitter-tasting constituents have disappeared, although modern kale varieties are generally low on bitter components and are harvested as early as in September.

The participants in a Kohlfahrt (“cabbage walk”) arrange a walk through the countryside to a village pub, usually in mid-winter. Often this walk is linked with cross-country games like Boßeln and the like. As fortification against the frosty weather and in preparation for the hearty meal, an ample supply of alcoholic beverages, such as korn, or for sailors, sherry, is taken in a shopping trolley or handcart, which are handed out as part of the games or at waypoints along the walk (e.g., at crossroads or pylons). At the village pub, the merry walkers are served with Grünkohl and, depending on the region, with [sweet (not to everyone’s taste)] baked potatoes or boiled potatoes and Kassler, Bregenwurst, Pinkel or Kohlwurst. In addition there is also much to drink (beer, Korn) allegedly to aid the digestion. In many areas there is also music and dancing after the meal.

The Grünkohlessen reaches its climax in the proclamation of the Kohlönig (“cabbage king”) or the Kohlönigspar (“cabbage couple”). Various methods are used to award the royal title. Either the number of portions consumed is added up, the weight of the participants before and after the meal is measured, or the results of the games during the walk are used. The Kohlönig is singled out as the last to leave the table. This excludes visits to the toilet or dancing breaks. As a visible sign of royalty, chains with the history of the Kohlönigs of this group or a pig’s jaw bone with an appropriate inscription are worn. The king or royal couple have the responsibility of organising the following year’s Grünkohlessen. Because many firms, street communities and clubs organise Grünkohlessen in the winter months, the village inns at popular times (Saturdays in January and February) are often fully booked several weeks in advance.

One of the biggest Grünkohlessen events has taken place since 2007 in Hamburg. In the Fish Auction Hall near the St. Pauli Landungsbrücken several regional companies together with the food and drink industry organise a joint event, the so-called Grünkohl-Schlemmerfest, in which over 1500 paying guests take part.
Dining Hall (Mensa)
Conference Location (Building A14)
Busstation (Lines 306, 310)
Grocery/convenience store ("Combi")
Cafeteria

Map

Bus Schedule

for iOS

for Android